



DATA & APPLICATIONS ONLINE

Mercury Advanced Product Search

Overview

Mercury is a tool for discovering and accessing a broad range of ecological and biogeochemical data, with an easy-to-use search interface based on location, time range, and keywords. Using Mercury, users can search and access data held at the Oak Ridge National Laboratory Distributed Active Archive Center (ORNL DAAC), as well as search related data at other data centers, including the Long Term Ecological Research (LTER) Network and the Organization of Biological Field Stations (OBFS).

The ORNL DAAC is one of the NASA Earth Observing System Data and Information System (EOSDIS) data centers. NASA data centers provide a wide variety of interdisciplinary Earth system science data, information, services, and tools.

While Mercury was originally developed for NASA and the ORNL DAAC, the technology and easy-to-use interface have proven useful in a number of other areas. Mercury is currently in use in 11 different projects, with funding from NASA, the U.S. Geological Survey (USGS), and the Department of Energy (DOE).

Mercury supports various metadata standards, including XML, Z39.50, FGDC, Dublin-Core, Darwin-Core, EML, and ISO-19115. Mercury is implemented using a Service-Oriented Architecture based on open source tools and provides multiple search interfaces, including the graphical user interface, Really Simple Syndication (RSS), Geo-RSS, OpenSearch, Web Services, and JSR-168 Portlets.

Data

- Mercury has several search capabilities, including simple, fielded, temporal, and spatial. It is compatible with Internet search engines.
- Mercury's search summary page provides an integrated summary of the search results across multiple data sources, with tools for sorting and filtering these results. The results can also be emailed, bookmarked, or used as an RSS feed.

To learn more, go to <http://mercury.ornl.gov/ornldaac>

